



inov3PT
SEED POTATO
FOR THE FUTURE

IPMY

Integrated Pest Management Against PVY



Summary

Viral diseases were the cause of nearly 60% of downgrades recorded during the 2019/2020 seed potato production campaign, 87% of them are represented by Potato virus Y (PVY). Climate change and the withdrawal of molecules for crop protection favor the proliferation of aphids, vectors of PVY. To date, the use of mineral oils is the only preventive treatment to limit the spread of virus Y, but with the growing pressure of vectors and increasingly early, its effectiveness is not always optimal. For this reason, it is imperative to determine the methods of application that maximize the effectiveness of mineral oil and to develop other alternative and complementary practices to oil. The project consists in determining the persistence of mineral oil on treated plants and the factors that influence its maintenance, but also in finding combinations of levers to complete its effectiveness. This involves testing biocontrol products with a direct or indirect action on the plant or vector and cultural methods such as companion plants and mulching in an integrated pest management framework and with an agroecological approach.

Actions

- measure the persistence of mineral oil using analytical tools (GC/MS)
- define the conditions that favor the protection against the transmission of virus Y by the oil
- test the effect of biocontrol products, under controlled conditions, on viral transmission
- test combinations of levers in the field

TECHNICAL MEMO

Project's holder:



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Project submitted to the Call for Projects
Ecophyto ++ 2021: TransmYcontrol

Project duration: 36 months

Beginning/End of the project:

01/01/2022 – 31/12/2024

Partners:

- The 3 regional organisations of seed potato producers: Bretagne Plants, Comité Centre et Sud, Comité Nord
- University Picardie Jules Verne (UPJV)
- Seed companies (companion plants)
- Biocontrol companies
- Collectors

Financial support:



Project manager FN3PT/inov3PT:

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Project team:

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